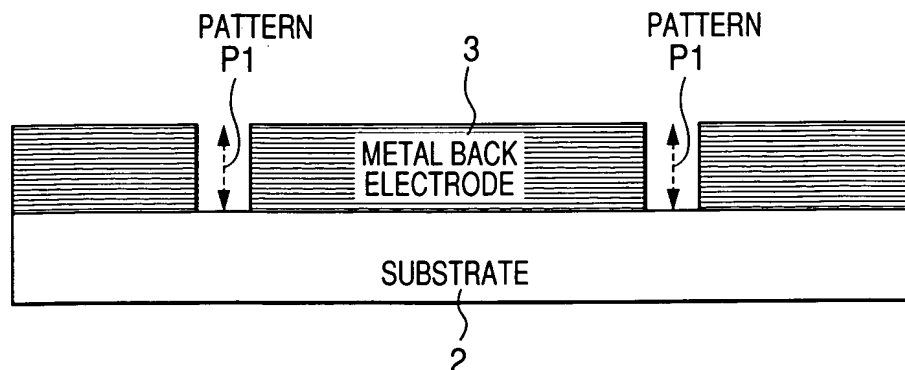
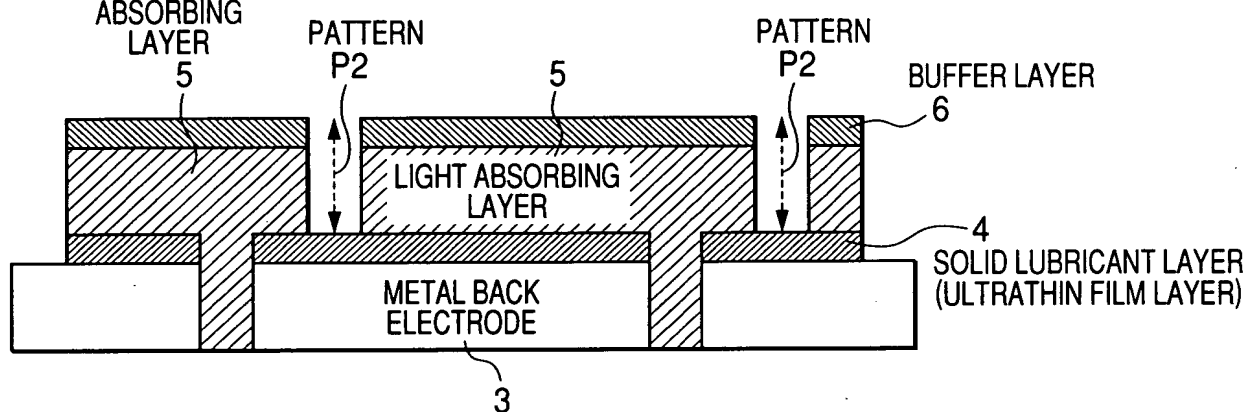


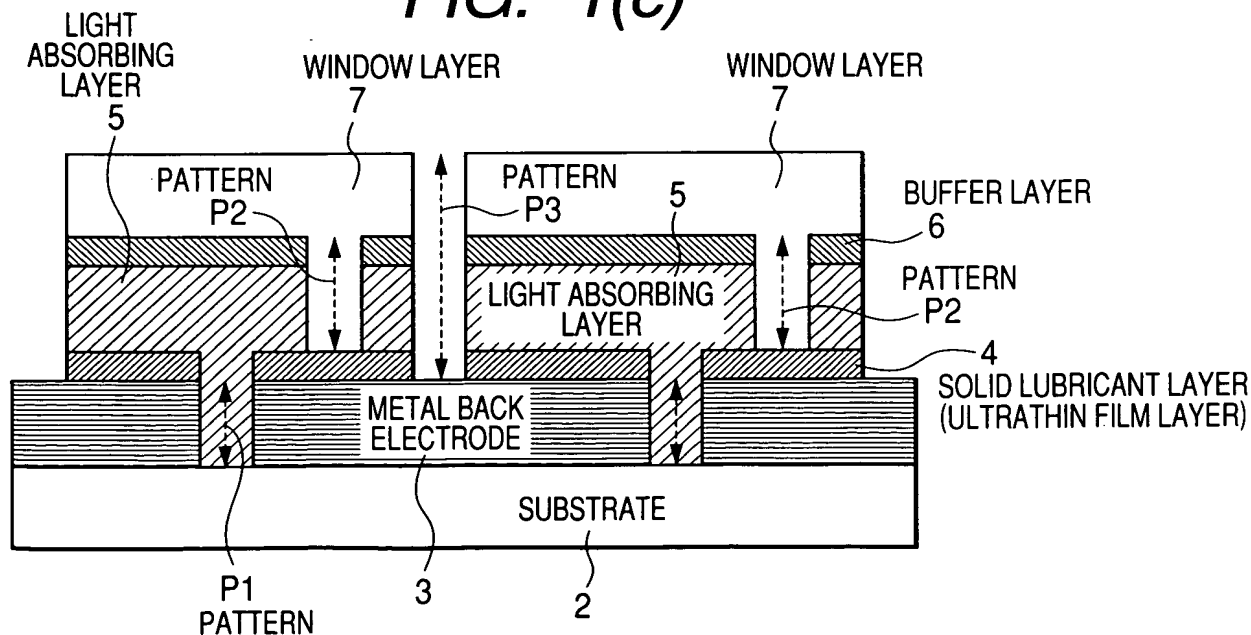
**FIG. 1(a)**



**FIG. 1(b)**

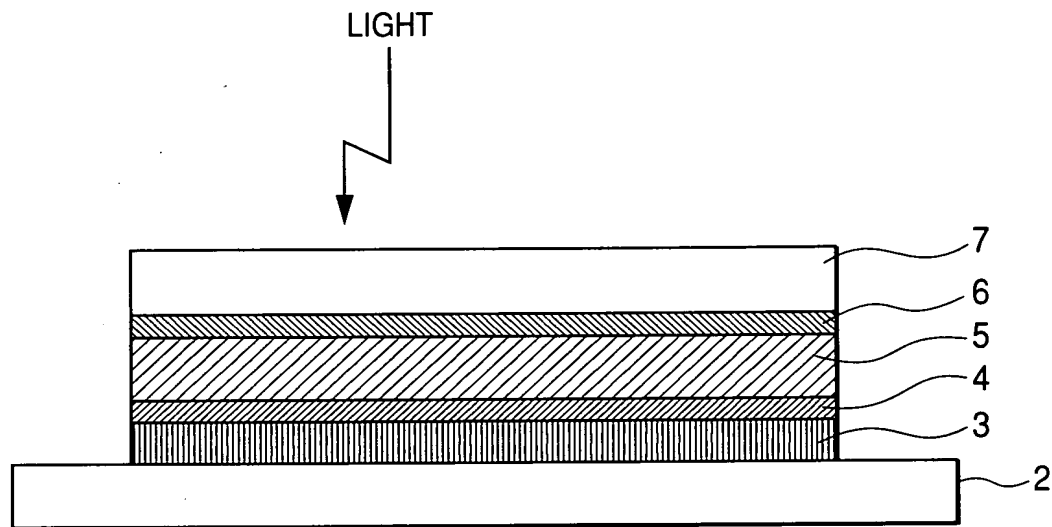


**FIG. 1(c)**



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**FIG. 2**

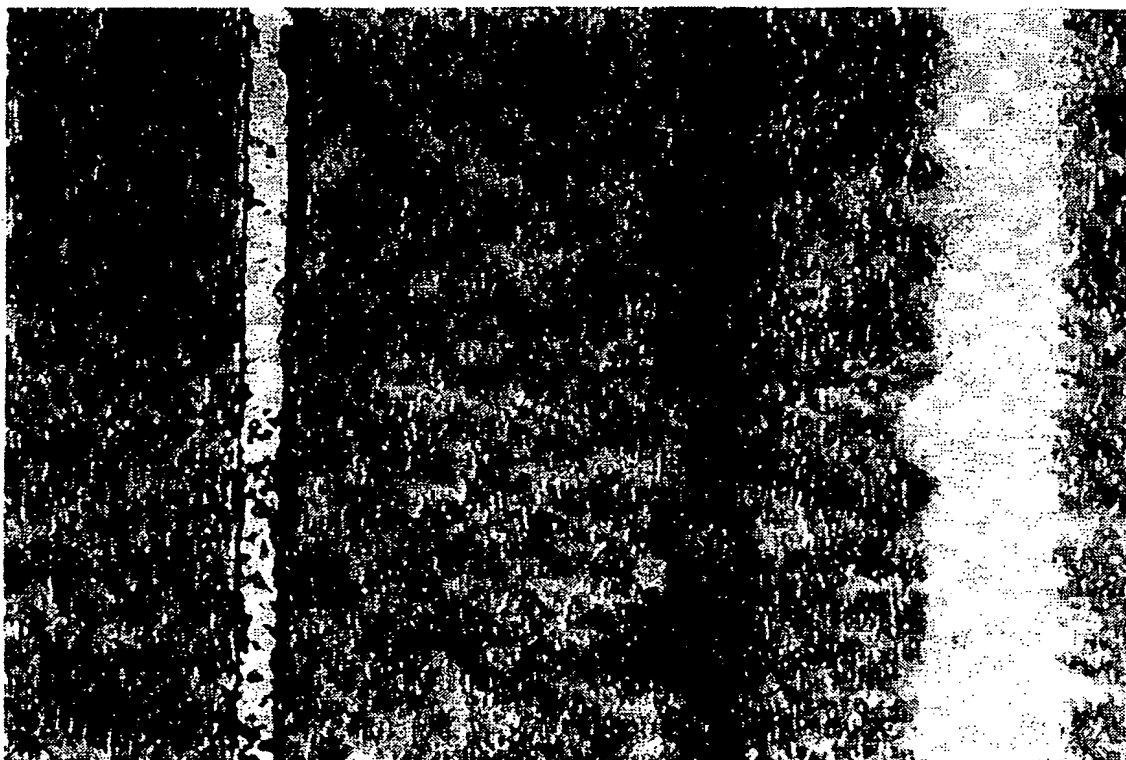


INTEGRATED THIN-FILM SOLAR CELL 1

- 2: SUBSTRATE
- 3: METAL BACK ELECTRODE
- 4: SOLID LUBRICANT LAYER
- 5: LIGHT ABSORBING LAYER (p-TYPE)
- 6: INTERFACE LAYER (BUFFER LAYER)
- 7: WINDOW LAYER (n-TYPE)

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*FIG. 3*



P1  
PATTERN

P2  
PATTERN

P3  
PATTERN

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*FIG. 4*

CIGS LIGHT  
ABSORBING LAYER

MoSe<sub>2</sub> ULTRATHIN  
LAYER

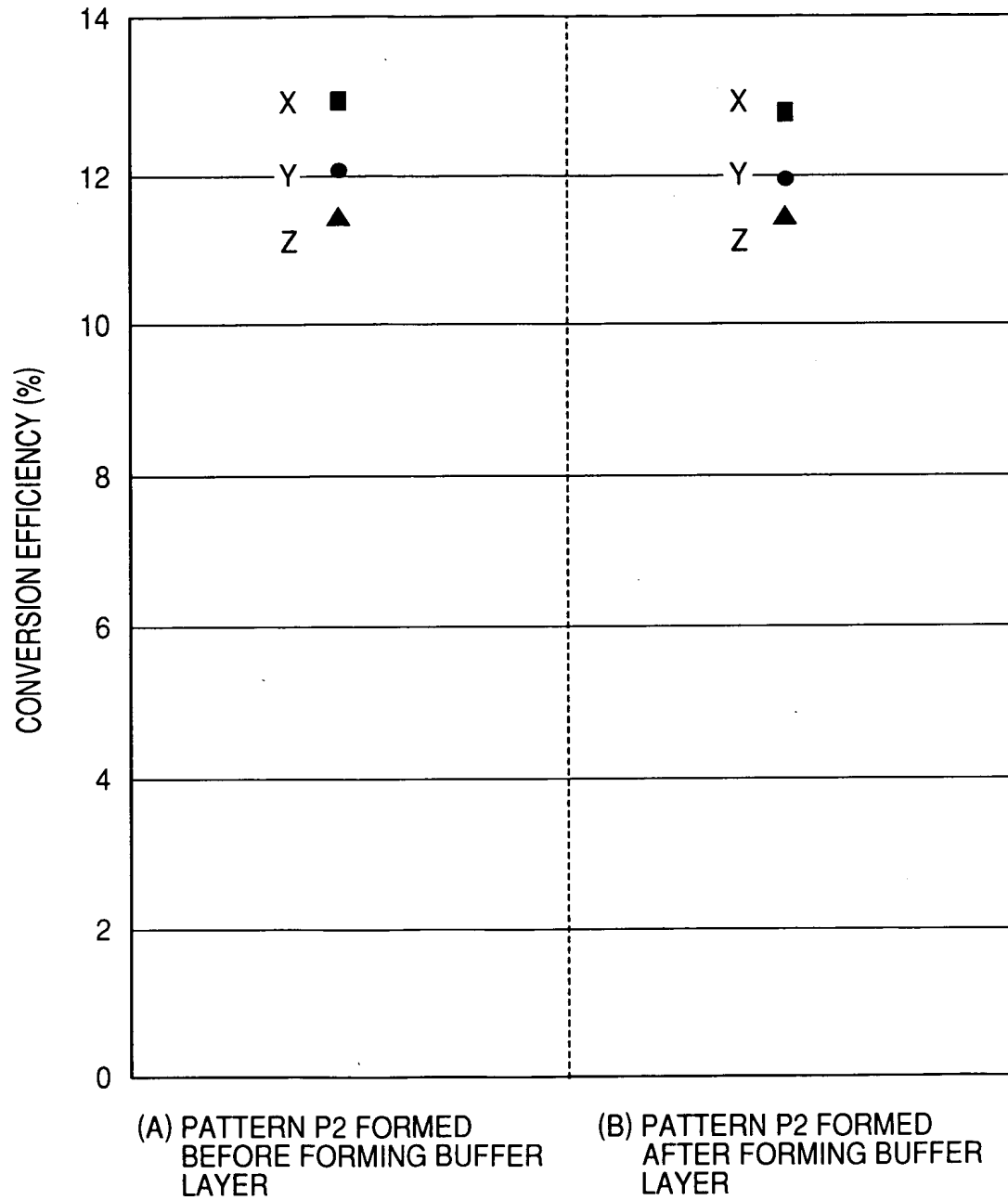
Mo METAL BACK  
ELECTRODE



—  
500A

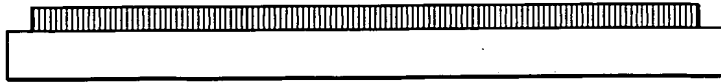
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**FIG. 5**



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*FIG. 6(a)*



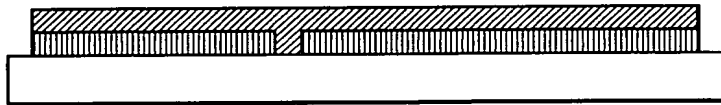
FORMING METAL BACK  
ELECTRODE LAYER ON  
SUBSTRATE

*FIG. 6(b)*



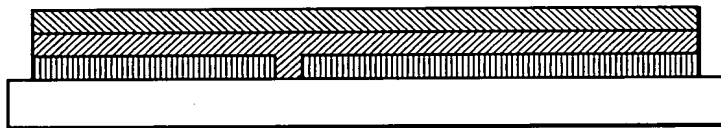
PATTERNING P1  
CUTTING METAL BACK  
ELECTRODE LAYER

*FIG. 6(c)*



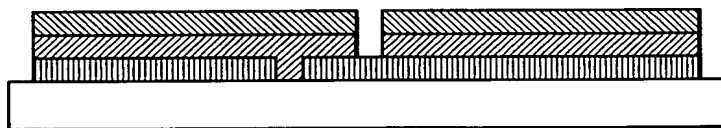
FORMATION OF LIGHT  
ABSORBING LAYER

*FIG. 6(d)*



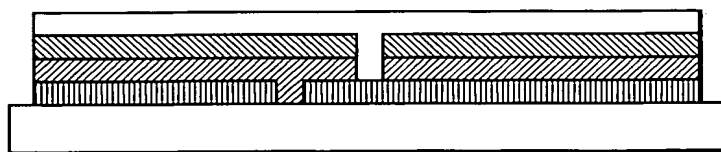
FORMATION OF BUFFER  
LAYER

*FIG. 6(e)*



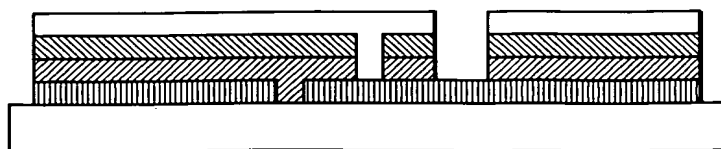
PATTERNING P2  
CUTTING LIGHT ABSORBING  
LAYER AND BUFFER LAYER

*FIG. 6(f)*



FORMING WINDOW  
LAYER

*FIG. 6(g)*



PATTERNING P3  
CUTTING LIGHT ABSORBING  
LAYER, BUFFER LAYER  
AND WINDOW LAYER